

**AMENDMENTS TO THE CLAIMS**

1. **(Withdrawn)** A therapeutic agent for periodontal diseases which comprises a neurotrophic factor as an active ingredient.

2. **(Withdrawn)** The therapeutic agent according to Claim 1 which regenerates the periodontal tissue.

3. **(Withdrawn)** The therapeutic agent according to Claim 1 which regenerates the cementum.

4. **(Withdrawn)** The therapeutic agent according to Claim 1 which regenerates the periodontal ligament.

5. **(Withdrawn)** The therapeutic agent according to Claim 1 which regenerates the alveolar bone.

6. **(Withdrawn)** The therapeutic agent according to Claim 1 which prevents the apical invasion of gingival epithelium along the dental root surface.

7. **(Withdrawn)** The therapeutic agent according to Claim 1 which regenerates the dental pulp.

8. **(Withdrawn)** The therapeutic agent according to Claim 1 which enhances the production of repaired dentin in the pulp cavity.

9. **(Withdrawn)** The therapeutic agent according to Claim 1, wherein the neurotrophic factor is a brain-derived neurotrophic factor, a nerve growth factor, neurotrophin-3, or neurotrophin-4/5.

10. **(Currently Amended)** A periodontal transplant which comprises:  
a therapeutically effective amount, per tooth or defect of furcation, of a neurotrophic factor for regenerating periodontal tissues; and  
a tissue-absorbing material made of hyaluronic acid or atelocollagen,  
wherein the therapeutically effective amount reduces or inhibits the apical invasion of gingival epithelium along the dental root surface, regenerates cementum and regenerates alveolar bone, wherein the regenerated cementum and the regenerated alveolar bone have a periodontal ligament between them and wherein the neurotrophic factor is selected from the group consisting of brain-derived neurotrophic factor, nerve growth factor, neurotrophin-3, and or neurotrophin-4/5.

11. **(Canceled)**

12. **(Previously Presented)** The periodontal transplant according to Claim 10, wherein the therapeutically effective amount regenerates the periodontal ligament.

13.-14. **(Canceled)**

15. **(Previously Presented)** The periodontal transplant according to Claim 10, wherein the therapeutically effective amount regenerates the dental pulp.

16. **(Previously Presented)** The periodontal transplant according to Claim 10, wherein the therapeutically effective amount enhances the production of repaired dentin in the pulp cavity.

17. **(Canceled)**

18. **(Withdrawn and Currently Amended)** A method for regenerating the periodontal

tissue which comprises using a neurotrophic factor administering to a patient in need thereof an effective amount of the periodontal transplant of claim 10 to regenerate the periodontal tissue.

19. **(Withdrawn and Currently Amended)** The ~~regenerating~~ method according to Claim 18 which regenerates the cementum.

20. **(Withdrawn and Currently Amended)** The ~~regenerating~~ method according to Claim 18 which regenerates the periodontal ligament.

21. **(Withdrawn and Currently Amended)** The ~~regenerating~~ method according to Claim 18 which regenerates the alveolar bone.

22. **(Withdrawn and Currently Amended)** The ~~regenerating~~ method according to Claim 18 which prevents the apical invasion of gingival epithelium along the dental root surface.

23. **(Withdrawn and Currently Amended)** The ~~regenerating~~ method according to Claim 18 which regenerates the dental pulp.

24. **(Withdrawn and Currently Amended)** The ~~regenerating~~ method according to Claim 18 which enhances the production of repaired dentin in the pulp cavity.

25. **(Canceled)**

26. **(Withdrawn)** A repaired dentin morphogenesis enhancer which comprises a neurotrophic factor as an active ingredient.

27. **(Withdrawn)** The repaired dentin morphogenesis enhancer according to Claim 26 wherein the neurotrophic factor is a brain-derived neurotrophic factor, a nerve growth factor, neurotrophin-3, or neurotrophin-4/5.

28. **(Withdrawn)** A therapeutic method for pulpal disease which comprises administering a therapeutically effective amount of a neurotrophic factor to a subject who is suffering or prone to suffer from the disease in order to enhance the morphogenesis of repaired dentin.

29. **(Withdrawn)** The method according to Claim 28 wherein the neurotrophic factor is a brain-derived neurotrophic factor, a nerve growth factor, neurotrophin-3, or neurotrophin-4/5.

30. **(Previously Presented)** The periodontal transplant according to Claim 10, wherein the therapeutically effective amount is in the range of  $1 \times 10^{-12}$ g to  $1 \times 10^{-3}$ g per tooth or defect of furcation.

31. **(Currently Amended)** The ~~A~~ periodontal transplant according to ~~claim 10~~, which comprises a therapeutically effective amount, per tooth or defect of furcation, of a neurotrophic factor for regenerating periodontal tissues; and

hyaluronic acid,

wherein the therapeutically effective amount reduces or inhibits the apical invasion of gingival epithelium along the dental root surface, regenerates cementum and regenerates alveolar bone, wherein the regenerated cementum and the regenerated alveolar bone have a periodontal ligament between them and wherein said neurotrophic factor is brain-derived neurotrophic factor.

32. **(NEW)** The periodontal transplant of claim 10, further comprising neurotrophin-3.

33. **(NEW)** The periodontal transplant of claim 31, further comprising neurotrophin 4/5 or neurotrophin-3.

34. (NEW) The periodontal transplant of claim 10, comprising a neurotrophic factor and atelocollagen.

35. (NEW) The periodontal transplant of claim 10, comprising a neurotrophic factor and hyaluronic acid.

36. (NEW) The periodontal transplant of claim 31, further comprising atelocollagen.

37. (NEW) A method for regenerating the periodontal tissue which comprises administering to a patient in need thereof an effective amount of the periodontal transplant of claim 31 to regenerate the periodontal tissue.

38. (NEW) The method according to claim 37, wherein the periodontal ligament is regenerated.